CLAIMS

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- 1. A composition free of whole *Eimeria* parasites, which comprises one or more proteins, or fragments or variants thereof; wherein said proteins:
 - (a) are present in the hydrophilic phase of a Triton X-114 extract of Eimeria sporozoites
 - (b) have molecular masses of 26-30 kDa ± 5 kDa (i.e. 21-35 kDa) when determined by SDS-PAGE under reducing conditions.

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2. A composition according to claim 1 wherein said extract of Eimeria sporozoites is an extract of E. tenella, E. acervulina, E. maxima, E. brunetti, E. necatrix or E. mitis sporozoites.

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3. A composition according to claim 1, or claim 2; wherein at least 50% w/w of proteinaceous material present is made up of one or more of said proteins, fragments and/or variants.

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4. A composition according to any preceding claim wherein a plurality (e.g. two or three of said proteins, fragments or variants thereof are present).

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- 5. A composition according to any of claims 1 to 3 wherein only one of said proteins or fragments or variants thereof is present, e.g. in substantially pure form.
- 6. A nucleic acid molecule, which:

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		a) encodes a protein, variant or fragment thereof, as described in any of
		claims 1 to 5,
	5	b) is complementary to a nucleic acid molecule as described in a),
		or c) hybridises to a nucleic acid molecule as described in a) or b).
A		7. A nucleic acid molecule according to claim 6, which is in isolated or
	10	recombinant form.
	10	8. A vector comprising a nucleic acid molecule according to claim 6 or claim 7.
		9. A non-avian host comprising a vector according to claim 8 or a nucleic acid
		according to claim 6 or claim 7.
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er: Francis Francis		10. A vector according to claim or a host according to claim 9, which is adapted
DOCETE THES		to express a protein, variant or fragment thereof as described in any of claims 1 to 5.
		11. A pharmaceutically acceptable vaccine composition comprising a vector or
16	20	host according to claim 10 (whether in live, killed or attenuated form).
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1 24		12. A pharmaceutically acceptable composition according to any of claims 1 to 5
, ,		in the form of a vaccine.
Suh	25	13. A composition according to claim 11 or claim 12 wherein said vaccine
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1		14. A composition according to claim 12 wherein the adjuvant is Quil A.
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- 15. A composition according to any of claims 12 to 14, which is in unit dosage form.
- 5 16. A composition according to any of claims 1 to 5 or claims 11 to 15 for use in medicine.
 - 17. The use of a composition according to any of claims 1 to 5 in the preparation of a vaccine against an *Eimeria*-mediated disorder, e.g. against coccidiosis.

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- 18. An antibody or a derivative thereof that binds with a protein, variant or fragment thereof as described in any of claims 1 to 5.
- 19. An immunological reagent comprising a protein, variant or fragment thereof as described in any of claims 1 to 5 bound to a support or provided with a detectable label.
- 20. An immunological reagent comprising a protein, variant or fragment thereof as disclosed in any of claims 1 to 5, which is bound to a support or provided with a labelling substance.

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21. A test kit for the diagnosis of *Eimeria* infection comprising a nucleic acid molecule according to claim 6 or claim 7; an antibody or derivative thereof according to claim 18; or an immunological reagent according to claim 19 or claim 20.

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